

Academic Affairs Council – Welding and Manufacturing

Clint Cowden
Dean of Academic Affairs





Workforce Training Needs Contacts by Industry Sector

Advanced Manufacturing and Advanced Manufacturing Employer Survey	+
Advanced Transportation and Logistics	+
Agriculture, Water & Environmental Technologies	+
Business & Entrepreneurship	+
Energy, Construction & Utilities	+
Global Trade	+
Health	+
Information & Communication Technologies (ICT) and Digital Media	+
Life Sciences and Biotech	+
Retail, Hospitality and Tourism 'Learn and Earn'	+



RD Since: 2013



Host: Laney College

Contact Info:
P: (850) 248-7728
E: mark.martin@design4x.com

Supervisor of Record:
Peter Crabtree

Mark Martin

Regional Director
Advanced Manufacturing
San Francisco Bay Region

Current Activities and Project Updates

Regional Projects

- Apprenticeship
 - Working with companies to increase apprenticeship programs and enrollments
 - Tesla (14 apprentices)
 - EBMUD, SFPUC, and others
 - Assisting CCCCCO with FTES guidance for apprentices
- Connections
 - Resources to help companies, CC's, K-12 connect
 - Job Fairs
 - BayAreaManufacturingCareers.com
 - Conferences (AMBayArea, HTEC, CITEA)
 - Boards
 - Assn of Manufacturers – Bay Area
 - Manex Mfg Extension Partnership
 - CA Industrial & Technology Educ Assn

Sector Priorities, Projects and Trends

- Electronics program to cover South Bay
- Quality Control programs
- Automation / mechatronics / robotics / industrial maintenance collaboration
- Expanded Apprenticeship
- Connecting students with jobs
- Connecting companies with qualified employees



2018-2028 Occupational Projections - Welding

SOC Code	Occupational Title	Entry Level Education	2018 Jobs	2018-2028 Total Job Openings	Annual Job Openings	Average Annual Earnings
51-4121	Welders, Cutters, Solderers, and Brazers	High school diploma or equivalent	1920	2140	214	\$ 55,884.50
Grand Total			1920	2140	214	\$ 55,884.50

Supply of Welding Students	2017-18	2018 -19	2019 -20	Latest 3 Yr Avg
095650 - Welding Technology				
Cabrillo	2	1	12	5
Hartnell	8	8	9	8.3333333
095650 - Welding Technology Total	10	9	21	13.333333



2018-2028 Occupational Projections - MFGT

SOC Code	Occupational Title	Entry Level Education	2018 Jobs	2018-2028 Total Job Openings	Annual Job Openings	Average Annual Earnings
17-3024	Electro-Mechanical Technicians	Associate's degree	530	480	48	\$ 56,006.00
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Postsecondary non-degree award	650	630	63	\$ 59,913.00
49-9041	Industrial Machinery Mechanics	High school diploma or equivalent	1570	1580	158	\$ 70,258.00
Grand Total			2750	2690	269	\$ 64,108.75



Supply of MFGT Students				
095600 - Manufacturing and Industrial Technology	2017-18	2018 -19	2019 -20	Latest 3 Yr Avg
Hartnell	0	1	0	0.333333
095600 - Manufacturing and Industrial Technology Total	0	1	0	0.333333



Data Questions

- How articulation affects the class size/efficiency
- How one struggling program can affect others



THANK YOU.

Now it is time to hand over to faculty